

## IN THE CLAIMS

Cancel claims 1-13.

Claims 1-13 (cancelled).

[Please add the following new claims:]

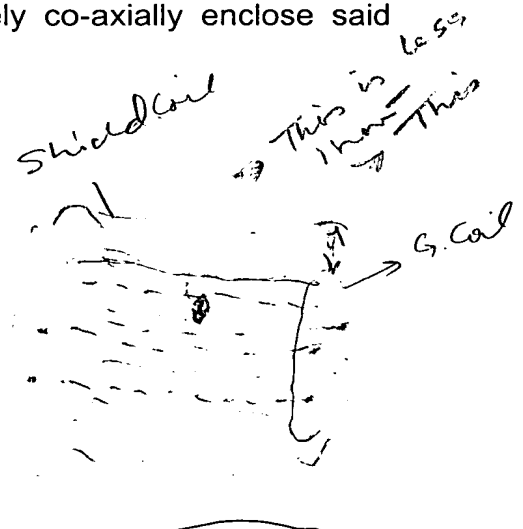
14. (New) A hollow-cylindrical gradient coil system comprising:

a gradient coil comprising gradient coil circumferential conductor sections disposed longitudinally spaced from each other at a first cylindrical surface, and gradient coil longitudinal conductor sections electrically connecting said gradient coil circumferential conductor sections;

a shielding coil for shielding said gradient coil, comprising shielding coil circumferential conductor sections disposed longitudinally spaced from each other at a second cylindrical surface that is disposed a radial distance outside of said first cylindrical surface, and shielding coil longitudinal conductor sections electrically connecting said shielding coil circumferential conductor sections; and

said gradient coil longitudinal conductor sections being spaced from said shielding coil longitudinal conductor sections at a distance that is less than said radial spacing.

15. (New) A gradient coil system as claimed in claim 14 wherein said shielding coil longitudinal conductor sections respectively co-axially enclose said gradient coil longitudinal conductor sections.



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leaks  
specification

specification  
no support

16. (New) A gradient coil system as claimed in claim 14 having a principal cylinder axis, and wherein said gradient coil longitudinal conductor sections are disposed <sup>at</sup> a greater distance from said principal cylinder axis than said shielding coil longitudinal conductor sections.

17. (New) A gradient coil system as claimed in claim 14 wherein said gradient coil and said shielding coil are adapted to carry substantially equal respective currents therein.

18. (New) A gradient coil system as claimed in claim 14 wherein said gradient coil and said shielding coil are adapted to carry respective currents therein in opposite directions.

Lack of enablement  
as not positively cited  
Jones